BÁO CÁO THỰC HÀNH LAP 1 LẬP TRÌNH HƯỚNG ĐỐI TƯƠNG

The Very First Java Programs

2.2.1 Write, compile the first Java application

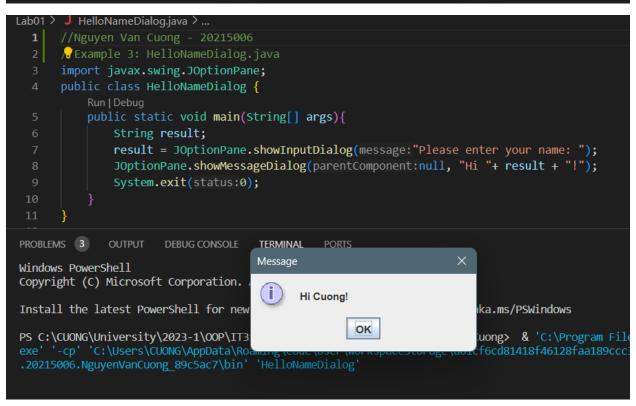
```
//Nguyễn Van Cuong - 20215006
       🖟 Example 1: HelloWorld.java
      public class HelloWorld {
           public static void main(String[] args){
               System.out.println(x:"Xin chao \n cac ban!");
               System.out.println(x:"Hello \t world!");
PROBLEMS 3
              OUTPUT
                       DEBUG CONSOLE
                                      TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\CUONG\University\2023-1\00P\IT3103.732872.2023.1.20215006.NguyenVanCuong> & 'C:\Progra
exe' '-cp' 'C:\Users\CUONG\AppData\Roaming\Code\User\workspaceStorage\a01cf6cd81418f46128faa1
.20215006.NguyenVanCuong 89c5ac7\bin' 'HelloWorld'
Xin chao
 cac ban!
        world!
Hello
```

2.2.2 Write, compile the first dialog Java application

```
Lab01 > J FirstDialog.java > ♦ FirstDialog > ♦ main(String[])
       import javax.swing.JOptionPane;
       public class FirstDialog {
           public static void main(String[] args){
               JOptionPane.showMessageDialog(parentComponent:null, message:"Hello world! How are you?");
                System.exit(status:0);
PROBLEMS 3
                                       TERMINAL
                                       Message
Windows PowerShell
Copyright (C) Microsoft Corporation.
                                        (I)
                                              Hello world! How are you?
Install the latest PowerShell for new
                                                                           ka.ms/PSWindows
                                                       OK
PS C:\CUONG\University\2023-1\00P\IT3
                                                                           uong> & 'C:\Program Files\Microsoft\jdk
 .20215006.NguyenVanCuong_89c5ac7\bin' 'FirstDialog'
```

2.2.3 Write, compile, and run the following example

```
//Nguyen Van Cuong - 20215006
      🥀 Example 3: HelloNameDialog.java
      import javax.swing.JOptionPane;
     public class HelloNameDialog {
          public static void main(String[] args){
              String result;
              result = JOptionPane.showInputDialog(message:"Please enter your name: ");
              JOptionPane.showMessageDialog(parentComponent:null, "Hi "+ result + "!");
              System.exit(status:0);
                                     TEDMINIAL DODTO
ROBLEMS 3
                      DEBUG CONSOLE
                                     Input
/indows PowerShell
Copyright (C) Microsoft Corporation.
                                            Please enter your name:
                                      ?
                                            Cuong
install the latest PowerShell for new
                                                                         ca.ms/PSWindows
                                                OK
                                                        Cancel
PS C:\CUONG\University\2023-1\00P\IT3
                                                                          uong> & 'C:\Program Fi
exe' '-cp' 'C:\Users\CUONG\AppData\Ro
                                                                          6cd81418f46128faa189cc
20215006.NguyenVanCuong 89c5ac7\bin' 'HelloNameDialog'
```



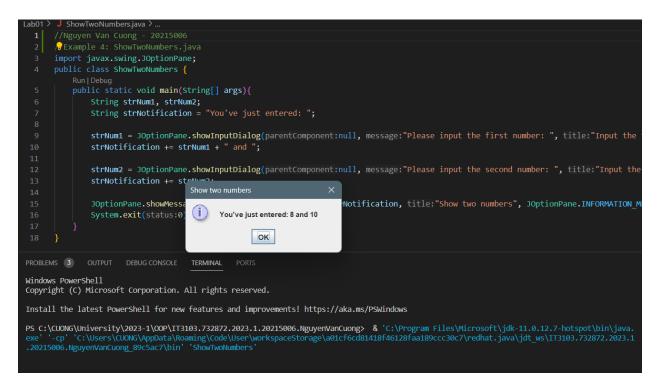
2.2.3 Write, compile, and run the following example

```
√Example 4: ShowTwoNumbers.java

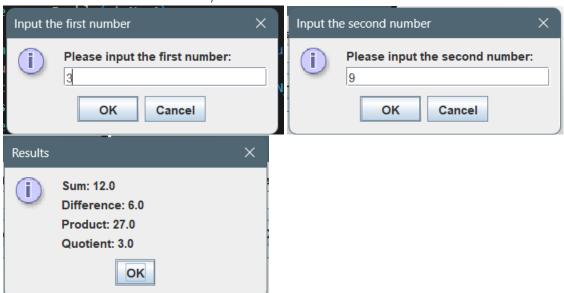
        import javax.swing.JOptionPane;
       public class ShowTwoNumbers {
            public static void main(String[] args){
                 String strNum1, strNum2;
                 strNum1 = JOptionPane.showInputDialog(parentComponent:null, message:"Please input the first number: ", title:"Input the fir
                 strNotification += strNum1 + " and ";
                 strNum2 = JOptionPane.showInputDialog(parentComponent:null, message: "Please input the second number: ", title: "Input the se
                 strNotification += s* Input the first number
                 JOptionPane.showMess
                                                                                      Notification, title:"Show two numbers", JOptionPane.INFORMATION_MESS
                                                   Please input the first number:
                 System.exit(status:0
                                                        OK
                                                              Cancel
PROBLEMS 3 OUTPUT DEBUG CONSOLE
                                           TERMINAL
Windows PowerShell
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PS C:\CUONG\University\2023-1\00P\IT3103.732872.2023.1.20215006.NguyenVanCuong> & 'C:\Program Files\Microsoft\jdk-11.0.12.7-hotspot\bin\java.exe' '-cp' 'C:\Users\CUONG\AppData\Roaming\Code\User\workspaceStorage\a01cf6cd81418f46128faa189ccc30c7\redhat.java\jdt_ws\IT3103.732872.2023.1
exe' '-cp' 'C:\Users\CUONG\AppData\Roaming\Code\User\workspaceStor
.20215006.NguyenVanCuong_89c5ac7\bin' 'ShowTwoNumbers'

√Example 4: ShowTwoNumbers.java

       public class ShowTwoNumbers {
            public static void main(String[] args){
                 String strNum1, strNum2;
                 String strNotification = "You've just entered: ";
                 strNum1 = JOptionPane.showInputDialog(parentComponent:null, message:"Please input the first number: ", title:"Input the
                 strNotification += strNum1 + " and ";
                 strNum2 = JOptionPane.showInputDialog(parentComponent:null, message: "Please input the second number: ", title: "Input the
                 strNotification += s
                                                                                        lotification, title:"Show two numbers", JOptionPane.INFORMATION_
                  JOptionPane.showMess
                                                    Please input the second number:
                  System.exit(status:0
                                                    10
                                                          OK
                                                                   Cancel
PROBLEMS 3 OUTPUT DEBUG CONSOLE
                                             TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\CUONG\University\2023-1\00P\IT3103.732872.2023.1.20215006.NguyenVanCuong> & 'C:\Program Files\Microsoft\jdk-11.0.12.7-hotspot\bin\java.exe' '-cp' 'C:\Users\CUONG\AppData\Roaming\Code\User\workspaceStorage\a01cf6cd81418f46128faa189ccc30c7\redhat.java\jdt_ws\IT3103.732872.2023.1.20215006.NguyenVanCuong_89c5ac7\bin' 'ShowTwoNumbers'
```



2.2.5 Write a program to calculate sum, difference, product, and quotient of 2 double numbers which are entered by users



2.2.6



PT bậc 1, 1 ẩn: Ax+B=0





Hệ PT bậc 1, 2 ẩn: Ax+By=C, Dx+Ey=F

A=3; B=4; C=5; D=6; E=7; F=8



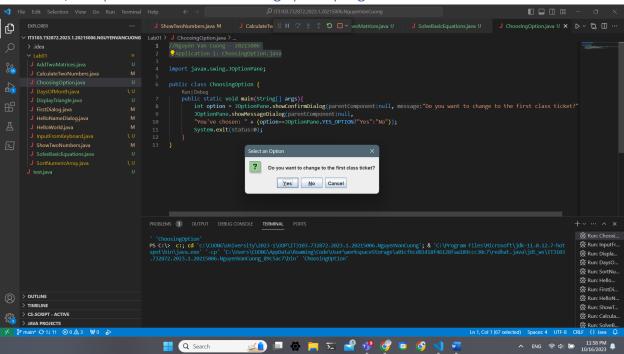
PT bậc 2, 1 ẩn: Ax^2+Bx+C=0

A=1;B=4;C=3

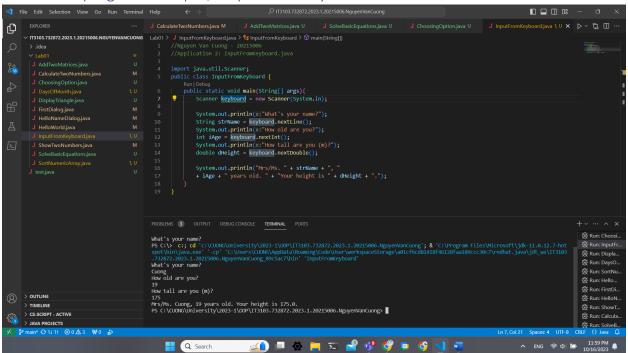


Exercises

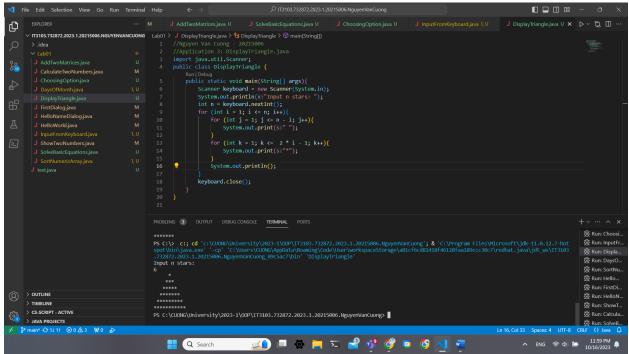
6.1 Write, compile and run the ChoosingOption program:



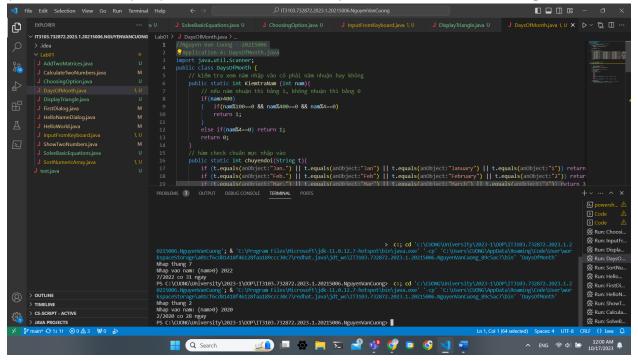
6.2 Write a program for input/output from keyboard



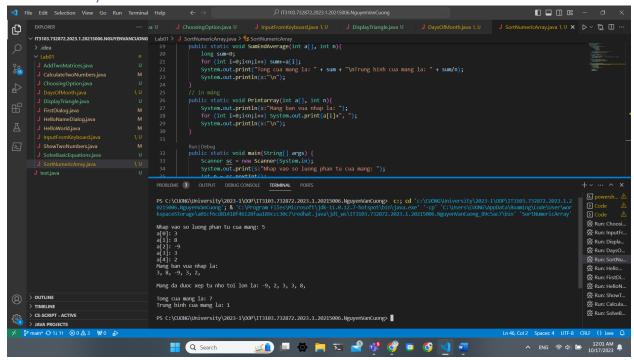
6.3 Write a program to display a triangle with a height of n stars (*), n is entered by users.



6.4 Write a program to display the number of days of a month, which is entered by users (both month and year). If it is an invalid month/year, ask the user to enter again.



6.5 Write a Java program to sort a numeric array, and calculate the sum and average value of array elements.



6.6 Write a Java program to add two matrices of the same size.

